

The 9-T9 design utilizes a T-9 ($1\frac{1}{6}$ " Dia.) bulb based to fit a standard 9-pin miniature socket. Advantages of the 9-T9 include an increase in the heat dissipation safety margin, as compared to 9-pin miniature tubes employing T-6 $\frac{1}{2}$ ($\frac{1}{6}$ " Dia.) bulbs.

MECHANICAL DATA

Bulb	 Same as E9-1,	Special, T-9 except Bulb Diameter
Outline	 	See Drawing
Basing	 	Coated Unipotential
Mounting Position	 	Anv

ELECTRICAL DATA

HEATER CHARACTERISTICS	7754	76 9 5	
Heater Voltage		50 Volts 150 Ma	
Maximum Heater Current Range ²	14		
Heater-Cathode Voltage (Design Maximum Valu	ies)		
Heater Negative with Respect to Cathode Total D C and Peak		200 Volts Max.	
Heater Positive with Respect to Cathode		200 VOITS IVIAX.	
D C		100 Volts Max.	
Total D C and Peak		200 Volts Max.	
DIRECT INTERELECTRODE CAPACITANCE	S (approx	.)	
Grid No. 1 to Plate		$0.75 \mu \mu f$	
Input: $g1$ to $(h+k, g3+g2)$		14 μμf	
Output: p to $(h+k, g3+g2)$		9 μμf	
RATINGS (Design Maximum Values)			
Plate Voltage		150 Volts Max.	
Grid No. 2 Voltage		150 Volts Max.	
Plate Dissipation		16 Watts Max.	
Grid No. 2 Dissipation		2.5 Watts Max.	
Fixed Bias		0.1 Megohm Ma	a v
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0.5 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Cathode Bias......

	Class AB1 Push-Pull		Class A Single T	
Plate Voltage	130	140	130	140 Volts
Grid No. 2 Voltage	130	140	130	140 Volts
Grid No. 1 Voltage	-12		-11	Volts
Cathode Resistor		50		100 Ohms
Peak AF Grid No. 1 Voltage	11.3	11.3	11	11.3 Volts
Zero Sig. Plate Current	195	210	100	100 Ma
Max. Sig. Plate Current	220	210	108	100 Ma
Zero Sig. Grid No. 2 Current	9	9	5	5 Ma
Max. Sig. Grid No. 2 Current	24	20	15	14 Ma
Transconductance			11,000	µmhos
Plate Resistance (approx.)			7000	Ohms
Load Resistance			1100	1100 Ohms
Load Resistance (P1 to P1)	1800	1500		
Max. Signal Power Output	10	10	4.5	4.5 Watts
Total Harmonic Distortion	6	4	11	11 Percent

SINGLE ENDED PUSH-PULL, CLASS A TRANSFORMERLESS OPERATION (See Circuit and Curve)

Supply Voltage	280 Volts
Plate Load Resistance	500 Ohms
Grid No. 2 Resistors (Rc2)	
Peak AF Grid No. 1 Voltage	10.5 Volts
Power Output	5 Watts
Distortion	10 Percent

NOTES:

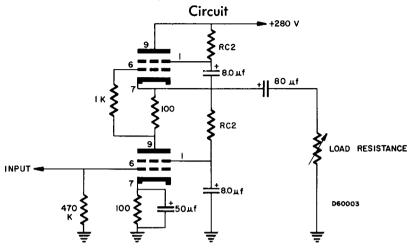
- For series heater operation, equipment should be so designed so that at normal supply voltage bogey tubes will operate at this value of heater current.
 Design Maximum Values.

SYLVANIA TYPES 7754, 7695 (Cont'd)

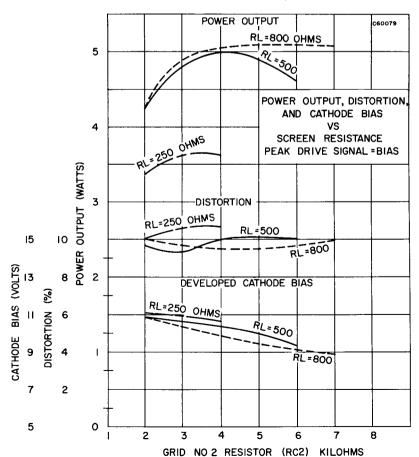
APPLICATION

The Sylvania Type 7695, beam power pentode, features remarkably high power sensitivity as an audio power amplifier. In Class A1 operation, it can deliver 4.5 watts of power with a B+ voltage of only 130 volts. As a result, the 7695-7754 makes possible economies in power supply requirements.

Single Ended Push Pull



Single-Ended, Push-Pull,
TRANSFORMERLESS OPERATION (See Circuit)



SYLVANIA ELECTRONIC TUBES